

SEQUENCE LISTING

SEQ 1: *Arabidopsis thaliana GAD1*

1 atgggtgcct cccacgcccgt atcggaggctg gacgtctccg tccactccac attcgcatca
61 cgttacgtcc gtacttcact tccttaggttc aagatgccgg aaaactcgat tcctaaggaa
121 gcggcgatc agatcatcaa cgacgagctg atgcttgacg ggaatccacg gttgaactta
181 gcctcccttg tgacgacatg gatggaggctt gagtgtgata aactcatcat gtcctccatc
241 aacaagaact atggtgacat ggacgagttc cccgtcacca ccgaacttca gaaccgatgt
301 gtgaacatga ttgcacatct attcaatgca cggtagaaag aggccggagac cgccgtcgga
361 gtaggaaccg ttggatcatc ggaggccata atggtggccg gttggccctt caagcgtaaa
421 tggcagaaca agcgcaaaagc tgaaggcaaa cccgtcgata aacccaacat tgcaccgg
481 gccaatgttc aagtgtgttggagaaattt gcttaggtact ttgaggttga acttaaggaa
541 gtgaaattga gtgaaggata ctatgtatg gaccctcaac aagctgttga tatggtttat
601 gagaacacca ttgtgttgc ggacattctt gttccactc ttaatggaga attcgaagat
661 gttaaactct tgaacgatct cttggctgaa aagaacaaag aaaccggatg ggatacacca
721 atccacgtgg atgcgtcaag tggaggattt attgcaccgt tttgtatcc ggaattggaa
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1021 agaaatgttga tggaaattt cagagagaat atgatgttc taagggagg acttggaaag
1081 acagaaatgt tcaacatcgatctt ctcggatcc gaggggatgc cacttgcgc tttctccctt
1141 aaagatagca gctgtcacac tgagttcggaa atctccgaca tgcttcgcag gtatggatgg
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1261 atcagagaag atttctcgag aacactcgatctt gagagactt tgatcgatag agagaaatgt
1321 atgcgtgagc tgcgtgatctt tccttcgaga gtgattcaca aaatatcact tggacaagag
1381 aagagtgtaat tcaacagcga taacttgcgtatc gtcacggatc agaagagcga tatcgacaag
1441 cagagagata tcaatcactgg ctggaagaag tttgtcgccg acaggaagaa gacgagtgg
1501 atctgctaa

SEQ2: *Arabidopsis thaliana GAD1*

MVLSHAVSESDSVHSTFASRYVRTSLPRFKMPENSIPKEAAYQIINDELMLDGPNRPLNLASFVTTWME
PECDKLIMSSINKNYVDMDEYPVTTELQNRCVNMIHLFNAPLEEAETAVGVGTVGSSEAIMLAGLAFK
RKWQNKRKAEGKPVDKPNIVTGANVQCVWEKFARYFEVELKEVKLSEGYYVMDPQQAVDMVDENTICVA
DILGSTLNGEFEDVKLLNDLLVEKNKETGWDTPIHVDAASGGFIAPFLYPELEWDFRPLVKSINVSGH
KYGLVYAGIGWIWRNKEDLPEELPHINYLGADQPTFTLNFSKGSSQVIAQYYQLIRLGHEGYRNVM
NCRENMIVLREGLEKTERFNIVSKDGVPLVAFSLKDSSCHTEFEISMLRRYGWIVPAYTMPPNAQHI
TVLRVVIREDFSRTLAERLVIDIEKVRELDELPNSRVIIHKISLGQEKSNSDNLMVTVKKSDIDKQRD
IITGWKKFVADRKKTSGIC

SEQ 3: *Arabidopsis thaliana GAD2*

1 ctaaacagaa acaaagatgg ttttgacaaa aaccgcacatc aatgtatgtatc ctgtctgcac
61 catgttcggat tctcgctatg ttgcactac acttcccaag tatggatggatc gtgagaattc
121 gataccgaaa gacgctgtatc atcggatcatc aaaagatggatc ctgtatgttgc atggtaaccc
181 gaggcttaac ctatgttcgt ttgtgactac atggatggaa ccagagtgtg acaaactcat
241 catggactctt atcaacaaga actacgttgc tatggatggatc taccgttca caactgtatc
301 ccagaaccga tggatggatc ttatgttcgt actgttcaat ggcgcactcg aggaatctga
361 gacggcggtt gggatggatc cagttggatc ttccagaagcc atcatgttag ccggattgg
421 cttcaaaaaga aaatggcaga acaaaccgaa ggctggggatc aaaccttatc acaaacccaa
481 cattgttactt ggagccatgttcaatggatc ctggatggatc ttgcgtcggt acttcgagg
541 ggagctaaatc gaatgttgcgtatc ttactacgttgc atggatccatc acaaaccgac
601 agaaatgttgcgtatc gacgttgcgtatc ttgcgtcggt atggatccatc acaaaccgac
661 tggatggatc gacgttgcgtatc ttgcgtcggt atggatccatc acaaaccgac
721 tggatggatc gacgttgcgtatc ttgcgtcggt atggatccatc acaaaccgac
781 tggatggatc gacgttgcgtatc ttgcgtcggt atggatccatc acaaaccgac

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841 caagtatgga ctggcttatg ctggattgg ttgggtcggt tggagggcag cagaggattt
901 gcctgaagag cttatcttc atattaatta tcttggtgt gatcaaccca ctttcactct
961 caatttctcc aaggatcgaa gccaaattat tgctcaatac taccagctca ttctgtctgg
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1081 agggatagag aaaacagagc gttcaacat agtctcaaag gaccaaggag tgccagtcgt
1141 agccttcctc ctaaggacc atagttcca caacgagttc gagatctcg agatgctacg
1201 tcgttttggc tggatcgatc cagcttacac tatgcctgcc gatgcacagc acatcacggt
1261 tctgcgtgtt gtcatacgaa aagatttctc aagaacactc gcggagagac ttgttgctga
1321 tatttcaag gtgcgtcatg agctagatac cttgccttcc aagatatacta agaagatggg
1381 aatagaaggg atcgcggaaa atgtaaagga gaagaagatg gagaaggaga ttctgtatgga
1441 agttattgtt ggtggagga agtttgtgaa ggagaggaag aagatgaatg gtgtgtgc
1501 agcaagtgtt ttgccttgcgtt gttggaaatgaa agaggtactt gcgaggactt tgcgttatac
1561 agtttatgtt tttgtatatac tatttgcgtt gatttatac gatttatac gcttgaaact
1621 cattttaaagc cattgttattt gaacgtttaaaactttt attat

SEQ 4: *Arabidopsis thaliana* GAD2

MVLTKTATNDESVCMTFGSRYVRTTLPKYEIGENSIPKDAAYQIIKDELMDGNPRLNLASFVTTWMEP
ECDKLIMDSINKYVDMDEYPVTTELQNRCVNIIARLFNAPLEEESETAVGVGTVGSSEAIMLAGLAFKR
KWQNKRKAEGKPYDKPNIVTGANQVCWEKFARYFEVELKEVNLSEGYVMDPDKAAEMVDENTICVAA
ILGSTLNGEFEDVKRLNDLLVKNEETGWNTPIHVDAASGGFIAPFYPELEWDFRLPLVKSINVSGHK
YGLVYAGIGWVVWRAAEDLPEELIFHINYLGADQPTFTLNFSKGSSQIIAQYYQLIRLGFEKYKNVMEN
CIENMVVLKEGIEKTERFNIVSKDQGPVVAFLSKDHSHFHNFEISEMLRRFGWIVPAYTMPADAQHIT
VLRVVIREDFSRTLAERLVADISKVLHELDLPSKISKMGIEGIAENVKEKKMEKEILMEVIVGWRKF
VKERKKMNGVC

SEQ 5: *Arabidopsis thaliana* GAD3

ATGGTTTATCTAACAGACAGCTTCAAATCCGATGATTCAATCCATTCAACTTTGCTTCCGTTATGTC
CGCAACTCTATCTCACGGTAAGAAGTTGAAACACAATTATTTATTGTTAATGTTTCAATTGTTAATGGTAAC
GAGTTCTAAAACCTAGCCTAGACGACGATAACACAGCATCTGATTCTAGATTCAATATTATTACAGAA
ATATTATTATTTAATATACGATATAGTCCAGATTAAATTGTTGGGTACATAAGAAAGAAATACTAGAT
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AGGAAGCAGCATACCAAATCATCAACGACGAGCTCAAGTTGACGGTAACCCGAGGCTAAACCTGGC
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TTGAGATGGACCAATACCTGTTACCAACCGACCTTCAGAATCGATGCGTTAACATGATTGCGCTCT
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GTGGTGGGTTATTGCTCCCTCTGTATCGGACTTGGAGTGGGATTCCGGTTACCGTTGGTTAAGA
GCATAAAATGTGAGTGGTCACAAATACGGTTGGTTACGCCGTATCGGTTGGGCGTATGGAGAAC
AAACCGATTGCCTGATGAACCTATCTCCATATCAATTATCTGGAGCTGATCAACCCACATTAC
TCAACTCTCTAAAGGTACATTACCATATCTATGTAAGTTAGATATATTATAGATTAATGTT
TTAATTCTGTATATTACCAAGGGTCAAGTCAGTGATTGCTCAGTACTACCAAGTGATTGCTTGGAT
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ACGGGACGTTTAACATCGTCTCCAAAGAAAACGGTGTCCGTTAGTGGCCTTCCTCTCAAAGATAGT
AGCCGCCACAACGAGTCGAGGTGGCCGAATGCTTCGTCGCTCGGCTGGATCGTCCGGCCTACACG
ATGCCTCGGGATGCGAACATGTCACGGTCCTCGAGTTGTTATCCGAGAAGATTTCTCTCGAACCTTA
GCTGAGAGATTGGTAGCCGATTCGAGAAGGTTCTACACGAGCTCGATACGCTTCCCGCAGGGGTTCAC
GCCAAGAGATGGCTAGTGGAAAAGTTAACGGTGTAAAGAAGACGCCAGAGGAGACGCCAAAGAGAAGTCACG
GCCTACTGGAAGAAGTTGTGGACACTAAGACTGACAAGAACGGCTCCGTTAGTAGCAAGTATTACC
AATCAATGA

SEQ 6: *Arabidopsis thaliana* GAD3

MVLSKTASKSDSIHSTFASRYVRNSISRFEIPKNSIPKEAAYQIINDELKFDPNPLNLASFVTTWME
PECDKLMMESINKNVEMDQYPVTTDLQNRCVNMIARLFNAPLGDEAAIVGVGTVGSSEAVMLAGLAFK
RQWQNKRKALGLPYDRPNIVTGANIQVCLEKFARYFEVELKEVVLREGYYVMDPDKAVEMVDENTICVV
AILGSTLTGEFEDVKLLNDLLVEKNKKTGWDTPIHVDAASGGFIAPFLYDLEWDFRLPLVKSINVSGH
KYGLVYAGIGWVWRKTDLPELIFHINYLGADQPTFTLNFSKGSSQVIAQYYQLIRLGFEGRNVMD
NCRENMMVLRQGLEKTRGNIVSKENGVPVAFSLKDSSRHNEFEVAEMLRRFWIVPAYTMPADAQHV
TVLRVVIREDFSRTLAERLVADFEKVLHELDTLPARVHAKMASGVNGVKKTPPEETQREVTAywKKFVD
TKTDKNGVPLVASITNQ

SEQ 7: *Arabidopsis thaliana* GAD4

ATGGTTTGTCTAACAGACTTCCGAATCTGATGTCTCAATCCATTCAACTTTGCTTCTCGTTACGTC
CGCAACTCTCTCCACGGTAACAACCTGTAACACAAATCTTTGCTAAATGTTTCTCGTCAACAATAGTA
ACATGTAATGATGTAACACCTGGATAGTTTTTTGGCCGTGGTTAATGTTGAGATTATTATGTTG
TTATATACTATAAGGAAGGACATGTTCTGTTAACTTAATGTATCATCATTCTCATCATTAGATT
GAAATGCCTGAGAACTCAATCCAAAAGAACGAGCTTACCAAATCATCAACGACGAGCTATGCTCGAT
GGTAACCCAAGGCTGAACCTAGCTCCTCGTACCCACATGGATGGAGCCAGAATGTGACAAGCTCATG
ATGGAGTCCATCAACAAGAACTACGTCACATGGACAGTACCCCTGTCACCACTGAGCTTCAGAACCGA
TGTGTTAACATGATAGCACGTCCTTCAACGCCGCTGGTGACGGTAAGCTGCCGTGGTGGC
ACCGTCGGATCGTCGGAGGGCATTATGTTGGCCGTTGGCTTTAAAGAGACAATGGCAGAATAAGCGT
AAGGCCAAGGGCTCCTTATGATAAGCCAATATCGTAACCGGTGCTAATGTCAGGTAACCAAC
AAAAATTGATGAAATATTAACCAAGACAAAATTGAATTATCAATCCGTTAAGTTATATGTTGACTC
AATTCCGGTTCAATACAGGTTGCTGGAGAAATTGCAAGGTATTGCAAGTGGAGCTTAAGGAAGT
GAACCTAACAGAGAAAGACTATTACGTGATGGACCTGAAAGCGGTCGAAATGGTAGACGAAACACAAT
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GCAGCGAGTGGGGTTATTGCTCCGTTCTGTATCCGGAGCTGGAGTGGGATTCCGGCTACCGTTG
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ATTGCTCAGTACTACCAGCTGATTGCTTGGATTGAGGAAATAACTCAAATAGCAATATATT
TACCAAATGGTCATAAAAGAAACTAGAATGTATTATTTAAGTTGTTACTTGTACTATACTTGAAT
TAAACGTTCTAACATGACTAGTTGGTATTGTAATTAAATGTTTCTGTTGATTTAGGGT
TATCGCAATGTGATGGATAATTGTCGGAAAACATGATGGTACTAAGACAAGGATTAGAGAAAACGGGA
CGTTTAAATCGTCTCCAAAGAAAACGGTGTCCGTTAGTGGCGTTCTCTCAAAGATAGTAGCCGC
CACAACGAGTTGAGGTGGCCCATACACTCCGTCGCTCGGCTGGATCGTCCGGCCTACACGATGCCT
GCGGATGCGCAGCATGTCAGTGTCTCGAGTTGTTATCCGAGAAGATTCTCTCGAACCTAGCGAG
AGATTGGTAGCTGATTGAGAAGGTTCTACACGAGCTCGATACGCTCCGGCAGGGTTACGCCAAG
ATGGCTAATGGAAAAGTTAACGGTGTAAAGAAGACGCCAGAGGAGACGCCAGAGAGAAGTCACGGCCTAC
TGGAGAAGTTGTTGGAGACTAAGAAGACCAACAAGAACACAATTGCTAA

SEQ 8: *Arabidopsis thaliana* GAD4

MVLSKTVSESDVIHSTFASRYVRNSLPRFEMPENSIPKEAAYQIINDELMLDGPNPLNLASFVTTWME
PECDKLMMESINKNVDMDEYPVTTELQNRCVNMIARLFNAPLGDEAAIVGVGTVGSSEAVMLAGLAFK
RQWQNKRKAQGLPYDKPNIVTGANVQCVWEKFARYFEVELKEVNLREDYVMDPVKAVERMVDENTICVA
AILGSTLTGEFEDVKLLNDLLVEKNKQTGWDTPIHVDAASGGFIAPFLYDLEWDFRLPLVKSINVSGH
KYGLVYAGIGWVWRKTDLPELIFHINYLGADQPTFTLNFSKGSSQVIAQYYQLIRLGFEGRNVMD

TOEOTTE "20080000"

NCRENMVLRQGLEKTGRFKIVSKENGVPLVAFSLKDSSRHNEFEVAHTLRRFGWIVPAYTMPADAQHV
TVLRRVVIREDFSRTLAERLVADFEKVLHELDLPARVHAKMANGKVNGVKKTPETQREVTAYWKKLE
TKKTNKNTIC

SEQ 9: *Arabidopsis thaliana GAD5*

ATGGTACTCGCAACCAACTCTGACTCCGACGAGCATTGCATTCCACTTTGCTCTAGATATGTCCGT
GCTGTTGTTCCAGGTTCCAGAGACTTTGCCTCATTTAGTTTTAATCTTGATGCTACATTGTT
ATATATTAATTTATGATCTGTTGCATATATTGAAACAGGTTCAAGATGCCGACCATTGCATG
CCCAAAGATGCTGCTTATCAAGTGAATGAGCTGAGTGTGACAAACTCATCATGGATCTGCAATAAGAAC
GCCTCCTTGTCAACCCTGGATGGAACCTGAGTGTGACAAACTCATCATGGATCTGCAATAAGAAC
TATGTTGATATGGATGAATATCCTGTCACCACTGAGCTCCAGGTTCCCTCTCATTCATTCT
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AAAAGCTCAGGGTCTACCTATTGATAAGCCTAACATTGTCACTGGAGGCAATGTCAGGTCTAAATAT
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ACATTTCAAACCTTGTTCATCCGCTCAGGTGTGCTGGGAGAACGAGGACTTTGAGGTAGAG
CTCAAAGAGGTGAAACTAAGTGAAGACTACTATGTTATGGATCCAGCTAAAGCTGTAGAGATGGTGGAT
GAGAATACCATCTGTTGAGCAATTCTAGGATCCACACTTACTGGAGAGTTGAGGACGTTAACCAA
TTAACGATCTTAGCTGAGAAAAACGCAGAGACAGGATGGAAACTCCTATTGATGTCAGGCC
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AAAGATGATTGCCCAGAGGAACCTGTCTTCCACATCAACTACTTGGGAGCTGATCAACCCACTTCACT
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TTAAGAAACTCAATGTTCTTTGAGGGTCCAGGCAAATCATTGTCAGTACTATCAGTTATCCGA
CTAGGCTTGGACTTGTCCCTTATCTGCATTACAGTTCATTTTTCATCTGCTTAATCTAATG
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GGCTCCTAGCAGGATTGACATCTGCTGGCTGCAGCGGTTAGTGGTGTGATGAAGAAGATTAAAG
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SEQ 10: *Arabidopsis thaliana GAD5*

MVLATNSDSDEHLHSTFASRYVRAVVPFRKMPDHCPMPKDAAYQVINDELMLDGNPRLNLASFVTTWMEP
ECDKLIMDSVNKNYVDMDEYPVTTTELQNRCVNMIANLFHAPVGEDEAAIGCGTGSSEAIMLAGLAFKR
KWQHRRKAQGLPIDKPNIVTGANVQCVWEKFARYFEVELKEVVLSEDDYYVMDPAKAVEMVDENTICVAA
ILGSTLTGEFEDVKQLNDLLAEKNAETGWETPIHVDAASGGFIAPFLYPDFLEWDFRLPWVKSINVSGHK
YGLVYAGVGWVWWRKDDLPEELVFHINYLGADQPTFTLNFSKGSSQIIAQYYQFIRLGFEKYKNIMEN
CMDNARRLREGIEMTGFNIVSKDIGVPLVAFSLKDSSKHTVFEIAESLRKFGWIIPAYTMPADAQHIA
VLRVVIREDFSRGLADRLITHIIQVLKEIEGLPSRIAHLAAAASVGDDEEVVKVTAKMSLEDITKYWK
RLVEHKRNIVC

SEQ 11: *Tobacco NtGAD1*

1 aaaatatctc cattttctcc cttgttttag tctctgatct tctccgtcgt actaccacca
61 ctacgcggcc atgggtctgt ccaagacagc gtcggaaagt gacgtctcca tccactccac
121 tttcgcttcc cgatatgtt gcacttct tccgagggtt aagatgccag agaattcgat
181 accaaaggaa gcagcatatc aaatcataaa tgatgagctt atgtagatg gaaatccaag
241 actaaattta gcatttttg tgacaacatg gatggaacca gagtgtaca aactgatgat
301 ggattccatt aacaagaatt acgttgacat ggatgaatac cctgtaaacca ctgaacttca
361 gaatcgatgt gtaaacatga tagctcattt gttaacgcac ccacttggag atggagagac
421 tgcagttga gtggactg ttggatctc tgaggctatt atgcttgctg gattagctt
481 caagagaaaa tggcaaaata aaatgaaacg ccaaggcaag ccctgtgaca agcccaatat
541 tgtcactggt gccaatgtcc aggtgtttg ggagaaattt gcaaggattt ttgaagtgg
601 gctaaaggaa gtaaaagtga gtgatggata ctatgtatg gaccctgaga aagctgtgg
661 aatggtgat gagaacacaa tttgtgtac tgctatctt ggttcccacac tcaatgggt

TOXOEE 25890000

721 atttgaagat gttaaaggcgt tgaatgaccc cttgatttag aagaacaaaag aaaccgggtg
781 ggacactcca attcatgtgg atgcagcaag tggatttttgcattt ggtgaagagt ataaacgtga gtggtcacaa
841 agagcttgcgaa tggacttta gattgcattt ggtgaagagt ataaacgtga gtggtcacaa
901 atatggctt gtttatgtt gttatggttt ggccatttttgg aggaataagg aagacttacc
961 tgacgaactt atcttccaca ttaattatct ttgtgttgcattt caacccactt tcactctcaa
1021 cttctctaaa gttcttagcc aagtaattgc tcaatattac caacttattc gcttgggtt
1081 tgagggttac aagaatgtt tggagaattt tcaagaaaaat gcaagggttac taagagaagg
1141 acttgaaaaaa aatggaaagat tcaacataat atccaaagaaa attggagttc cattagtagc
1201 tttctctctt aaagacaaca gtcaacacaa tgagttcgaa atttctgaaa ctcttagaag
1261 atttggatgg attattcctg catatactat gccaccaaat gctcaacatg tcacagtct
1321 cagagttgtc attagagaag atttctccc tacactcgcc gagcgactgg taatagacat
1381 tgaaaaaagtc ctccacgagc tagacacact tccggcgagg gtcaacgcta agctagccgt
1441 ggccgaggcg aatggcagcg gcgtgcataa gaaaacagat agagaagtgc agcttgagat
1501 tactactgca tggaaagaaat ttgttgctga taagaagaag aagactaacg gagtttgta
1561 atttaattta acaaaatatg tttataatta atatgatgat ttataactac tagcagtgt
1621 actgcttgcgaa atttggatgg atttggatgg atgaggagct agctatttat
1681 tgcttagtgcgaa atttggatgg aaaaaa

SEQ 12: Tobacco NtGAD1

MVLSKTASESDVSIHSTFASRYVRTSLPRFKMPENSIPKEAAYQIINDELMLDGNPRLNLASFVTTWME
PECNLKMDSTNKNYVDMDEYPVTTTELQNRCVNMIHLFNAPLGDETAVGVTGVGSSEAIMLAGLAFK
RKWQNKMKAQGKPCDKPNIVTGANVQCVWEKFARYFEVELKEVKLSDGYYVMDPEKAVEMVDENTICVA
AILGSTLNGEFEDVKRLNDLLIEKNKETGWDTPIHVDAASGGFIAPFLYPELEWDFRPLVKSINVSGH
KYGLVYAGIGWAIWRNKEDELIFHINYLGADQPTFTLNFSKGSSQVIAQYYQLIRLGFEKYKNVME
NCQENARVLREGGLEKSGRFNIISKEIGVPLVAFSLKDNSQHNEFEISETLRRFGWIIPAYTMPPNAQHV
TVLRRVVIREDFSRTLAERLVIDIEKVLHELDTLPARVNAKLAVAEEANGSGVHKKTREVQLEITTAWKK
FVADKKKTNNGVC

SEQ 13: Tobacco NtGAD2

1 tattttcatt ttctctccgt ttttaatttc tgatcttctc cgctgtacta ccaccactac
61 gccgccatgg ttctgtccaa gacagcgtcg gaaaagtgaog tctccgttca ctccactttc
121 gcctcccgat atgttgcac ttctcttccc aggtttaaaaa tgccagagaa ttcaataccaa
181 aaggaagcag catatcagat tataatgtt gagctttagt tagatggaaa tccaaaggcata
241 aatttagcat ct当地cgat aacatggatg gagccagaat gtaatacgtt aatgtggat
301 tccattaaaca agaactacgt tgacatggat gaataccctg taaccactga gtttcagaat
361 cgatgtgtaa atatgtatgc tcattttttt aatgcaccac ttggagatgg agagactgca
421 gttggagttt ggactgttgg atcctctgaa gctattatgc ttgctggattt agcctttaag
481 agaaaatggc aaaataaaaat gaaagccaa ggcaagccct ttgataagcc caatattgtc
541 accgggtgcta atgtccaggt gtgttggag aaatttgcaa ggtatggaa atgtggagtt
601 aaagaagtaa aatttgatgtt gggataactat gtgtatggacc ctgagaaagc tggaaatg
661 gtggatgaga ataccattt gtttgcgtt atcttaggtt caacactcaa tggtaattt
721 gaagatgtt aacgtttgaa tgacctttt attgagaaga acaaaagaaaac cgggtgggac
781 actccaaattt atgtggatgc agcaagtggt ggattttattt caccattccct ttatccagag
841 cttgaatggg acttttagatt gccattggag aagagtattt atgtggatgg tcacaaat
901 ggtcttgtt atgtggat tggatggcc atttggagga ataaggaaga cttgcctgt
961 gaacttattt tccacatcaa ttaccttggt gctgatcaac ctactttcac tctcaacttc
1021 tctaaagggtt cttagccaaat aattgttcaaa tattaccaac ttattcgctt gggttttgag
1081 ggttacaaga atgttgcgaa gaaattgttca gaaaatgttca ggttatttgg agaaggaaatt
1141 gaaaaaaatggt gaagatgttca cataatctcc aaagaaaattt gagttccctt agtagcat
1201 tctctttaaaat acaacagtca acacaatgtt gttcggatattt ctgaaactct tagaagatt
1261 ggatggattt ttctggcata tactatgttca ccaaatgttca aacatgttca agttctcaga
1321 gttgtcatta gagaagattt ctcccgacca cttagcgatc gactgttattt agacatttgg
1381 aaagtcttcc acggatgttca cacacttccg gcgagggttca acgctaaatgtt agccgtggcc
1441 gagggcgaatg gcacggcgatg gcataagaaa acagatgttca aatgttca agagattact
1501 actgcattgtt tgaaattttt tgatgttca gaaatgttca ctaatggatg ttgttattt
1561 aatttaacaa aaaaaaaatgtt tataatgttca tgatgttca aactactgtt aatgttca
1621 ctgtttttt atatttgcgtt tgatgttca ttgttgcact tgaggagctt gctatgtt
1681 gcttagtgcgaa aatttgatgttca tatattttgg actactttgtt aatgttca tattatccaa
1741 aattaaacgtt tattatcat aaaaaaaaaa a

TOXOTTE - 25 SEP 2007

SEQ 14: Tobacco NtGAD2

MVLSKTASESDVS VHSTFASRYVRTSLPRFKMPENSIPKEAAYQIINDELMDGNPRLNLASFVTTWME
PECNTLMMDSINKNYVDMDEYPVTTELQNRCVNMIAHLFNAPLDGETAVGVGTVGSSEAIMLAGLAFK
RKWQNKMKAQGKPFDPNIVTGANVQCVWEKFARYFEVELKEVKLSDGYVMDPEKAVEMVDENTICVA
AILGSTLNGEFEDVKRLNDLLIEKNKETGWDTPIHVDAASGGFIAPFLYPELEWDFRPLPLEKSINVSGH
KYGLVYAGIGWAIWRNKEDLPDELIFHINYLGADQPTFTLNFSKGSSQVIAQYYQLIRLGFEKYKNVME
NCQENARVLREGIEKSGRFNIISKEIGVPLVAFSLKDNSQHNEFEISETLRRFGWIVLAYTMPPNAQHV
TVLRVVIREDFSRTLAERLVIDIEKVFHGVDTLPARVNAKLAVAEEANGSEVHKKTREVQLEITTAWLK
FVADKKKTNNGVC

SEQ 15: Petunia GAD

1 aaagagtaca aactaatatc cactaaatt gtatttctcc attttcttc tttatattgt
61 ctgtcataac aatggttcta tcaaagacag tgtcgcagag cgatgtgtcc attcaactcca
121 cgtttgcctc tcgatatgtt cgaacctctc ttcccaggtt taaaatgcca gataattcga
181 taccaaaaaga agcagcatat cagatcataa atgatgaact gatgttagat gaaacccaa
241 ggctgaactt ggcttctttt gttacaacat ggatggaacc agagtgtgat aagttgtatga
301 tggactctat taacaagaac tatgttgata tggatgaaata tcctgttacc actgagctc
361 agaatcgatg tggaaacatg atagctcatt tggttaatgc accactgaa gatggagaaaa
421 ctgcagggtgg agttgaaact gttggatcct ctgaagccat tatgtttgtct ggatttagctt
481 tcaagagaaa atggcagaac aaaatgaaag cccaaggcaaa accctgtgac aagcccaaca
541 ttgttactgg tgcaaatgtc caggtgtgct gggagaaaatt tgcaaggtat tttgaagtgg
601 agctaaagga agttaaagctt agtgaaggat actatgtgat ggaccctgag aaagctgtgg
661 agatggtgga tgaaaacacc atttggtagt ctgctatctt aggttccacc ctcaatggag
721 aatttgaaga cttaagcgc ttgaatgatc tcttggtcga gaagaacaaa gaaaccgggt
781 gggacactcc aattcatgtg gatgcagcaa gtgggtgatt tattgcaccg ttcatttacc
841 cagagcttga gtgggacttt agattgccccat tagtgaagag cattaatgtt agtggtcaca
901 aatatggct tgcctatgtt ggtattgggtt gggtcgtttt gaggaacaag atgatttgc
961 ctgtatgaaact tattttccac attaatttac ttgggtgctga tcaacacttact ttcactctca
1021 acttttctaa aggttcttagc caagtaatttgc ctcaatatttccaatttatttgc
1081 atgagggtta caagaatgtt atggagaatt gtcaagaaaaa tgcatcggtt ctaagagaag
1141 ggcttagaaaa gacagggaaa ttcaacataa tctccaaaga aatttggatgatc ctttttagtag
1201 cattctctct taaagacaac aggcaacaca acgatgtcgat gatttctgaa actttaagga
1261 gatttgggtt gatttgcctt gcatataacta tgccacaaaaa cgcacaacac attacagttc
1321 tcagagttgt gatcagggaaa gatttctccc gtacgcttgc agaacgactg gtaagagaca
1381 tcgaaaaaagt cttcatgaa cttggcacac tccctgcacgatc tgcataatgtt aagctcgctg
1441 tggccgagga gcaggccgct gcgaatggca gcgagggtgca taagaaaaaca gatagcgaag
1501 tgcagttggaa gatgataact gcatggaaa agtttggatc agaaaaagaag aagaagacta
1561 atcgagggtt ttaatttatttatttgc ttataatatgatc atgaatatgg ctattatcat
1621 tggtaactgc ttgttagtat attagctgtt attatccacca atatgagttt ggtttcttg
1681 atttgggttctt tttcgtact tgaaaagttt ttattgtatc tgtaaaaatttgc tactttttaa
1741 ctatttggat tattaatgcc aattttcttag tgcacttaat aaaaaa

SEQ 16: Petunia GAD

MVLSKTVSQSDVSIHSTFASRYVRTSLPRFKMPDNSIPKEAAYQIINDELMDGNPRLNLASFVTTWME
PECDKLMMDSINKNYVDMDEYPVTTELQNRCVNMIAHLFNAPLEDGETAVGVGTVGSSEAIMLAGLAFK
RKWQNKMKAQGKPCDKPNIVTGANVQCVWEKFARYFEVELKEVKLSEGYVMDPEKAVEMVDENTICVA
AILGSTLNGEFEDVKRLNDLLVEKNKETGWDTPIHVDAASGGFIAPFLYPELEWDFRPLPVKSINVSGH
KYGLVYAGIGWVVWRNKDDLPDELIFHINYLGADQPTFTLNFSKGSSQVIAQYYQLIRLGFEKYKNVME
NCQENASVLRREGLEKTGRFNIISKEIGVPLVAFSLKDNRQHNEFEISETLRRFGWIVPAYTMPPNAQHV
TVLRVVIREDFSRTLAERLVRDIEKVLHELDTLPARVNAKLAVAEEQAAANGSEVHKKTREVQLEMIT
AWKKFVEEKKKKTNRVC

SEQ 17: Tomato GAD

TOZDFTBZG680000

1 aaaaaatggt gttaacaacg acgtcgataa gagattcaga agagagcttg cactgtacat
61 ttgcataaag atatgtacag gaacctttac ctaagttcaa aatgcctaaa aaatccatgc
121 cgaaaagaagc agcttatcag attgtaaaacg acgagcttat gttggatggt aaccccaggt
181 tgaatttttagc ttcccttggtt agcacatgga tggagcccgaa gtgcgataag ctcatcatgt
241 catccattaa taaaaactat gtcgacatgg atgagttatcc tgtcaccact gaacctcaaa
301 atagatgtgt taacatgtta gcacatctt tccatgcccc ggttggatggat gatgagactg
361 cagttggagt tggtagtgcgg ggttcatcg aggcaataat gttgttgc cttgtttca
421 aacgaaatg gcaatcgaaa agaaaagcgg aaggcaaaacc ttgcataag ctaaatatag
481 tcactggggc taatgtgcag gtctgtggg aaaaatttgc aaggtatTTT gaggttgagt
541 tgaaggaggt gaaactaaaaa gaaggataact atgtaatggc ccctgccaaa gcagtagaga
601 tagtggatga gaataacaata tttttttttt caatccttgg ttctactctg actggggagt
661 ttgaggatgt gaagcttcta aacgagctcc ttacaaaaaa gaacaaggaa accggatggg
721 agacaccat tcatgtcgat gctgcgagtg gaggatttat tgctccttc ctctggccag
781 atcttgaatg ggatttccgt ttgccttgc tggaaaatgtt aaatgtcagc gtcacaagt
841 atggccttgc atatgtcggt gtcgggtggg tttatggcg gagcaaggaa gacttgcccg
901 atgaactcgt ctttcatata aactaccttgg tttctgtatca gcctactttt actctcaact
961 tctctaaagg ttccatcaa ataattgcac agtattatca gttaataaga cttggcttgc
1021 agggttataa gaacgtcatg aagaattgt tatcaaacgc aaaagtacta acagaggaa
1081 tcacaaaaat gggcggttc gatattgtct ctaaggatgt ggggtttcct gttgttagcat
1141 tttctctcag ggacagcagc aaatatacgg ttttgaagt atctgagcat ctcagaagat
1201 ttggatggat cgtccctgca tacacaatgc caccggatgc tgaacacatt gctgtactgc
1261 ggggtgtcat tagagaggat ttccggcaca gcttagctg gggacttgc tctgacatttgc
1321 agaaaattct gtcagagttt gacacacagc ctcctcggtt gcccacccaaa gctgtccgt
1381 tcactgtcga ggaagtgcgt gatgacaagg gttatgggtt tcatcatttt cacatggata
1441 ctgttagagac tcagaaagac attatcaaacc attggaggaa aatgcaggg aagaagacca
1501 gcggagttcg ctaggtctgg ccacacttgtt tatctgggtt ccgctccat cggccatctg
1561 tagtatgtat tacgtgtgtt gttccatct tatgttagtag ttggactgt aatctgtgt
1621 aatgcttca tgatcttggc tctgtatatg ctaaataagc actgcatttc aagttccctgg
1681 aagtatttat gtatgaatca atccgggcat aattggtaga atgcctctc tgcgtcatct
1741 ttgaatttca cgtcaataa ttttggaaat ctacacccat tat

SEQ 18: Tomato GAD

MVLTTTSIRDSEESLHCTFASRYVQEPLPKFKMPKKSMPKEAAYQIVNDELMDGNPRLNLASFVSTWM
EPECDKLIMSSINKNYVDMDEYPVTTELQNRCVNLALHLFHAPVGDDETAVGVGTVGSSEAIMLAGLAF
KRKWQSKRKAEGKPFDPNIVTGANQVCWEKFARYFEVELKEVKLKEGYYVMDPAKAVEIVDENTICV
AAILGSTLTGEFEDVKLLNELLTKKNKETGWETPIHVDAASGGFIAPFLWPDLWDFRLPLVKSINVSG
HKYGLVYAGVGWVIWRSKEDLPDELVFHINYLGSDQPTFLNFSKGSYQIIAQYQQLIRLGFEKYKNVM
KNCLSNALKVLEGITKMGRFDIVSKDVGVPVVAFLSLRDSSKYTVFEVSEHLRRFGWIVPAYTMPPDAEH
IAVLRVVIREDFSHSLAERLVSDIEKILSELDTQPPRLPTKAVRVTAEEVRDDKGGLHHFHMDTVEIQ
KDIIKHWRKIAGKKTSVGC

1) *Arabidopsis thaliana* ecotype Columbia glutamate decarboxylase 1 (GAD1)
cDNA

Note: This is nucleic acid SEQ #1 and amino acid SEQ #2

A) LOCUS ATU10034
ACCESSION U10034
VERSION U10034.1 GI:497978
REFERENCE

AUTHORS Arazi,T., Baum,G., Snedden,W.A., Shelp,B.J. and Fromm,H.
TITLE Molecular and biochemical analysis of calmodulin interactions with
the calmodulin-binding domain of plant glutamate decarboxylase
JOURNAL Plant Physiol. 108 (2), 551-561 (1995)

1. From Arabidopsis genome sequencing project chromosome 5 (ACC# AB005238)
LOCUS BAB10520
DEFINITION glutamate decarboxylase 1 (GAD 1) (*Arabidopsis thaliana*)
ACCESSION BAB10520
PID g10177078
VERSION BAB10520.1 GI:10177078
REFERENCE 1 (sites)
AUTHORS Sato,S., Kotani,H., Nakamura,Y., Kaneko,T., Asamizu,E., Fukami,M., Miyajima,N. and Tabata,S.
TITLE Structural analysis of *Arabidopsis thaliana* chromosome 5. I. Sequence features of the 1.6 Mb regions covered by twenty physically assigned P1 clones
JOURNAL DNA Res. 4 (3), 215-230 (1997)

2) *Arabidopsis thaliana* ecotype Columbia glutamate decarboxylase 2 (GAD2) cDNA

Note: This is nucleic acid SEQ #3 and amino acid SEQ #4

- A) LOCUS ATU46665
ACCESSION U46665
VERSION U46665.1 GI:1184959
REFERENCE
AUTHORS Turano,F.J. and Fang,T.K.
TITLE Characterization of two glutamate decarboxylase cDNA clones from *Arabidopsis*
JOURNAL Plant Physiol. 117 (4), 1411-1421 (1998)
- B) LOCUS ATU49937
ACCESSION U49937
VERSION U49937.1 GI:1236618
REFERENCE
AUTHORS Zik,M., Arazi,T., Snedden,W.A. and Fromm,H.
TITLE Two isoforms of glutamate decarboxylase in *Arabidopsis* a regulated by calcium/calmodulin and differ in organ distribution
JOURNAL Plant Mol. Biol. 37 (6), 967-975 (1998)
- C) From Arabidopsis genome sequencing project
ACCESSION #AC009513
Part of chromosome # 1
note="Identical to gblU46665 glutamate decarboxylase 2 (GAD 2)
Arabidopsis thaliana. and ESTs gblW43856, gblN37724,
gblZ34642 and gblR90491 come from this gene."
/protein_id="AAF06056.1"
/db_xref="GI:6227020"

3) *Arabidopsis thaliana* ecotype Columbia putative glutamate decarboxylase (putative GAD3) DNA From Arabidopsis genome sequencing project

Note: This is nucleic acid SEQ #5 and amino acid SEQ #6

ACCESSION #AC006532

Part of chromosome #2

/product="putative glutamate decarboxylase"

/protein_id="AAD20093.1"

/db_xref="GI:4406783"

4) *Arabidopsis thaliana* ecotype Columbia putative glutamate decarboxylase (putative GAD4) DNA From Arabidopsis genome sequencing project

Note: This is nucleic acid SEQ #7 and amino acid SEQ #8

ACCESSION #AC006532

Part of chromosome #2

/product="putative glutamate decarboxylase"

/protein_id="AAD20099.1"

/db_xref="GI:4406789"

5) *Arabidopsis thaliana* ecotype Columbia putative glutamate decarboxylase (putative GAD5) DNA From Arabidopsis genome sequencing project

Note: This is nucleic acid SEQ #9 and amino acid SEQ #10

ACCESSION #AB026646

Part of chromosome #3

/evidence=not_experimental

/product="glutamate decarboxylase"

/protein_id="BAB02870.1"

/db_xref="GI:9294589"

6) Tobacco (*Nicotiana tabacum*) glutamate decarboxylase isozyme 1 (NtGAD1) cDNA

Note: This is nucleic acid SEQ #11 and amino acid SEQ #12

A) LOCUS AF020425

ACCESSION AF020425

VERSION AF020425.1 GI:3252855

REFERENCE

AUTHORS Yun,S.J. and Oh,S.H.

TITLE Cloning and characterization of a tobacco cDNA encoding calcium/calmodulin-dependent glutamate decarboxylase

JOURNAL Mol. Cells 8 (2), 125-129 (1998)

TO2077-25000000

B) LOCUS NTU54774
ACCESSION U54774
VERSION U54774.1 GI:1777920
REFERENCE
AUTHORS Dharmasiri,M.A.N., Lu,Y.T. and Harrington,H.M.
TITLE Cloning and sequencing of a tobacco cDNA encoding glutamate decarboxylase
JOURNAL Unpublished

7) Tobacco (*Nicotiana tabacum*) glutamate decarboxylase isozyme 2 (NtGAD2) cDNA

Note: This is nucleic acid SEQ #13 and amino acid SEQ #14

LOCUS AF020424
ACCESSION AF020424
VERSION AF020424.1 GI:3252853
REFERENCE 1 (bases 1 to 1771)
AUTHORS Yun,S.J. and Oh,S.H.
TITLE Cloning and characterization of a tobacco cDNA encoding calcium/calmodulin-dependent glutamate decarboxylase
JOURNAL Mol. Cells 8 (2), 125-129 (1998)

8) Petunia (*Petunia hybrida*) glutamate decarboxylase cDNA

Note: This is nucleic acid SEQ #15 and amino acid SEQ #16

2. LOCUS PETGADX
ACCESSION # L16797
VERSION # L16797.1 GI:294111
KEYWORDS glutamate decarboxylase.
REFERENCE
AUTHORS Baum,G., Chen,Y., Arazi,T., Takatsuji,H. and Fromm,H.
TITLE A plant glutamate decarboxylase containing a calmodulin binding domain: cloning, sequence, and functional analysis
JOURNAL J. Biol. Chem. 268, 19610-19617 (1993)

B) LOCUS PETGLUDECA
ACCESSION L16977
VERSION L16977.1 GI:309679
REFERENCE
AUTHORS Baum,G., Chen,Y., Arazi,T., Takatsuji,H. and Fromm,H.
TITLE A plant glutamate decarboxylase containing a calmodulin-binding domain: cloning sequence and functional analysis
JOURNAL J. Biol. Chem. (1993)

9) Tomato (*Lycopersicon esculentum*) glutamate decarboxylase-like protein LEGDL cDNA

Note: This is nucleic acid SEQ #17 and amino acid SEQ #18

ACCESSION X80840

VERSION X80840.1 GI:993002

REFERENCE

AUTHORS Gallego,P.P., Whotton,L., Picton,S., Grierson,D. and Gray,J.E.

TITLE A role for glutamate decarboxylase during tomato ripening: the characterization of a cDNA encoding a putative glutamate decarboxylase with a calmodulin-binding site

JOURNAL Plant Mol. Biol. 27 (6), 1143-1151 (1995)

10006852 110704